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ABSTRACT OF THE DISCLOSURE

Benzodioxino-naphtho[1,2-b]pyran compounds having particularly advantageous photochromic properties, such as, high sensitivity/coloration, two distinct absorption bands in the 430-500 nm range and 520-620 nm range of the visible spectrum may be generally described as a naphthopyran having a central nucleus of the formula:

$$\begin{array}{c|c}
R_1 & R_2 \\
O & a & b & 3 \\
\downarrow & & & & c \\
\downarrow & & & & & g & e \\
\downarrow & & & & & & g & e
\end{array}$$

wherein F is a 1,4-benzodioxine ring

with its 2,3 positions fused to the i, j, or k faces; and

 R_1 and R_2 are the atoms or groups providing photochromic properties to the naphthopyran